

Dart Hawkesbury
1270 Aberdeen St Hawkesbury, ON K6A 1K7 Canada
Tel (613) 632-5200
Fax 613 632-5246



Purchasing Receipts

PO No	Supplier	Line Item No	Rel No	Terms	Purchased Item	Description	For Part No	Project	Equipment ID	Order Qty	Due Date	Received Quantity	Accounting Job No	Container No	Status	Receive Date	Price/Unit	Aging Days	Past Due	Total	Supplier Name	
PO041817	MEC002-VU	1	1	Net 30	M7075T6S2.000X7.000	7075-T6S Sheet 2" Thick Plate X 7" Wide (Order In Billets - 13.375") : MATERIAL: 7075-T6/T62 ALUMINUM SHEET AS PER QQ-A- 250/12 OR AMS-QQ-A- 250/12 OR AMS 4045 OR ASTM B209 receive ft				22	12/17/2018	22		S140523	Stock	12/20/2018	\$ 104.04 / ft	7		\$2,320.00	Metaux Castle	
										Total:	22		22								\$2,320.00	

Plex 12/27/2018 5:29 PM dart.Tollis.Andrew



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER **PO041817**

Supplier: MEC002-VU
Metaux Castle
P.O. Box 4090 Str A
Toronto
ON
M5W OE9 Canada

PO No: PO041817

PO Date: 11/22/18

Due Date: 12/17/18

Purchase Order

Revision:

Revision Date:

Ship-To Contact: Lavoie, Chantal
clavoie@dartaero.com

E-MAILED
NOV 23 2018

Ship To: 1270 Aberdeen Street
Hawkesbury
ON
K6A 1K7 Canada
Phone: 613-632-5200

Via: Ground

Pymt Terms: Net 30

Freight Terms:

Special Comments:

Items

Line Item	Job	Part	Supplier Part No	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (USD)	Extended Price
1		M7075T6S2.000X7.000		7075-T6S Sheet 2" Thick Plate X 7" Wide (Order In Billets - 13.375") : MATERIAL: 7075-T6/T62 ALUMINUM SHEET AS PER QQ-A-250/12 OR AMS-QQ-A- 250/12 OR AMS 4045 OR ASTM B209 receive ft	Firmed	-	12/17/18	22.3 ft	0 ft	22 ft	\$104.03587/ft	\$2,320.00

Line Item Note 20 pcs cut at 13.375" = 22.30 ft



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PURCHASE ORDER

PO041817

Items

Line Item	Job	Part	Supplier Part No	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (USD)	Extended Price
2 AK		M7075T6S0.375X5.000		M7075T6S0.375 X 5.000 : MATERIAL: 7075- T6/T62/T651 ALUMINUM SHEET OR PLATE SPECIFICATION: QQ-A-250/12 OR AMS-QQ-A- 250/12 OR AMS 4045 OR ASTM B209 OR MATERIAL: 7075- T6/T62/T65/ ALCLAD ALUMINUM SHEET OR PLATE SPECIFICATION: QQ-A-250/13 OR AMS-QQ-A- 250/13 OR AMS 4048 / 4049 OR ASTM B209 receive ft	Firmed	-	12/17/18	24 ft ✓	0 ft 24.08	24 ft	\$22.18/ft	\$532.32 AK 18/12/17



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PURCHASE ORDER **PO041817**

Items

Line Item	Job	Part	Supplier Part No	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (USD)	Extended Price
3 ✓ AT		M7075T6S0.375X8.000		7075-T6S Sheet .375" Thick Plate X 8" Wide : MATERIAL: 7075- T6/T62/T651 ALUMINUM SHEET OR PLATE SPECIFICATION: QQ-A-250/12 OR AMS-QQ-A- 250/12 OR AMS 4045 OR ASTM B209 OR MATERIAL: 7075- T6/T62/T65/ ALCLAD ALUMINUM SHEET OR PLATE SPECIFICATION: QQ-A-250/13 OR AMS-QQ-A- 250/13 OR AMS 4048 / 4049 OR ASTM B209 receive ft	Firmed	-	12/17/18	12 ft ✓	0 ft 12.04	12 ft AT 18/12/17	\$35.20/ft	\$422.40
4 ✓ AT		M7075T6S1.750X3.000		7075-T6 Sheet 1.750" X 3.000" : MATERIAL: 7075-T6/T62 ALUMINUM SHEET AS PER QQ-A-250/12 OR AMS-QQ-A- 250/12 OR AMS 4045 OR ASTM B209 receive ft	Firmed	-	12/17/18	12 ft ✓	0 ft 12.04	12 ft AT 18/12/17	\$47.20/ft	\$566.40
Grand Total: \$3,841.12												



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PURCHASE ORDER PO041817

Order Notes

Procurement Quality Clauses

A005 right of entry
A012 chemical and physical test report
A016 personnel qualification
A017 raw material identification (as applicable)
A026 certification of material conformance
A041 quality management system
A042 dart notification by supplier
A043 retention of quality documents

A048 counterfeit parts avoidance, detection, mitigation and disposition program
A049 supplier awareness

A handwritten signature in black ink, appearing to be "CL" or similar, with a large, loopy flourish underneath.

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Plex 11/22/18 2:44 PM dart.lavoie.chantal

Chantal Lavoie

From: Desbiens, Marc <mdesbien@amcastle.com>
Sent: Thursday, November 22, 2018 8:25 AM
To: Chantal Lavoie
Cc: Chrisoula Tsimiklis
Subject: RE: quote

Hi Chantal,

price an delivery on mat'l.

7075t6 plate 2" x 7" x 20 pcs cut to size, 13.375" \$ 116.60 pce 3 weeks

2320.00\$ 22.30/t. 104.03587
26+

7075t6 plate 0.375" x 5" x 24 ft \$ 22.18 Ft 3 weeks ✓

7075t6 plate 0.375" x 8" x 12 ft \$ 35.20 Ft 3 weeks ✓

7075t6 plate 1.75" x 3" x 12 ft \$ 47.20 Ft 3 weeks ✓

Thanks

Marc Desbiens
Inside sales representative
Castle Metals, Montreal, QC
Direct line 514-795-8176
1-800-806-6660 ext 52226
Fax # 1-855-892-6370

Customized Supply Chain Solutions for Your Metal Needs

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Castle Metals®

A. M. Castle & Co.

PACKING SLIP/
CERTIFICATE OF CONFORMANCE

Page 1 of 1

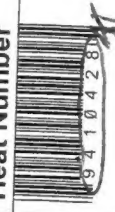
Ship From: A. M. CASTLE & CO. 2150 ARGENTIA ROAD MISSISSAUGA, ON L5N 2K7 CAN		Sold To: DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA		Ship To: DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CAN		Deliver To: DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA	
Date Shipped 18-DEC-18	F.O.B. ORIGIN	Freight Terms Prepaid		Carrier MANITOULIN	BOL No 3782931-2		

Shipment No:3782931

Shipment Details

Final Destination Branch - TOR

Order No 5327381	Line No 1	Item No 750616.MO	Description 2.0000.PL.7075.T651.ALUMINUM.USI.48.5000.144.5000 CUT RECTANGLE TO 7 IN (+ .1250/- .0000 IN) X 13.375 IN (+ .1250/- .0000 IN) - ALUMINUM PLATE SAW SPECIFICATIONS: AMS-QQ-A-250/12
Purchase Order No 41817	Part Number		Ordered Qty 20.00 PCS
Details		Invoice Qty 20.00 PCS	
ALL PAPERWORK MUST FOLLOW ORDER / CUSTOMER MUST RECEIVE AT TIME OF DELIVERY ALL MATERIAL MUST HAVE IDENTIFYING MARKINGS EX:HEAT #'S Email P/s and certs to: clavoie@dartaero.com END USER: DART AEROSPACE END USE: COMMERCIAL AIRCRAFT PARTS			

Delivery No. 122460482	Mill/Source CONSTELLUM ROLLED PRODUCTS	Heat Number  3410428	Mech Id	PCS 20	Width (IN)	Length (IN)	Shipped Qty(LBS) 386.5637
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We hereby certify the material covered by this certification conforms in accordance with the above specifications and has been found to meet the applicable requirements for the material, including any specifications forming a part of the description. Test reports are on file subject to examination. All claims for defective material are waived unless made in writing to A.M. Castle & Co. within 60 days of the shipment. Material cut to the correct size, or material supplied by customer cannot be returned for credit.
Reviewed by Authorized Castle Metals Representative:

DEC 18 2018

Date: SUE KALOOS

Date Printed: 18-DEC-2018 02:51:53 PM





Constellium Rolled Products
Ravenswood, LLC

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A M CASTLE & COMPANY

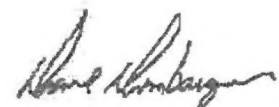
4175 ROYAL DRIVE
KENNESAW GA
30144
US

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A M CASTLE

1420 KENSINGTON ROAD, SUITE 220
OAK BROOK IL
60523
US

A M CASTLE		110620768		4075		INCLUSION		Serial:20180203-0110620768		Pg 1 of 2	
CUSTOMER PURCHASE ORDER NO. & ITEM 447822						Constellium ORDER NO. 227660					
ALLOY 7075		CLAD		TEMPER T651		GAUGE 2.00000 in 50.80 mm		WIDTH 48.50000 in 1,232 mm		LENGTH 144.50000 in 3,670 mm	
ITEM ORDERED SPEC PLATE, SAWED MILL FINISH											
CUSTOMER SPECIFICATION AMS QQ-A-250/12A											
PART NUMBER 750616				B/L NUMBER 94221				DATE SHIPPED 02/04/2018			
WT. SHIPPED 4260.000 LB				NO. OF PIECES 000003				GOVT. CONTRACT NO.			
<div style="text-align: right;"> Dave Dunberger - Laboratory Manager</div>											

CERTIFICATION
"Constellium Rolled Products, hereby certifies that metal shipped under this order has been inspected and found in conformance with the requirements of the applicable specifications as indicated herein. Any warranty is limited to that shown on Constellium Rolled Products' standard General Terms and Conditions of Sales. Test reports are on file, subject to examination."
Constellium Rolled Products Ravenswood, LLC
859 Century Road
P.O. BOX 68
RAVENSWOOD, WV 26164 USA

ALL LOTS ON THIS CERTIFICATION ALSO CONFORM TO THE FOLLOWING REQUIREMENTS:

ASTM B594 REV 13 2013 100% SONIC W/ 0.125"DEADZONE Class A
AMS 4045K
AMS-STD-2154A 2012 TYPE1 CLASS A 100% SONIC MINUS DEADZONE
ASTM B209-14
BSS-7055B 2013 CLASS A 100% SONIC TESTED MINUS DEADZONE
CSTI006 REV E 2011 CLASS A 100% SONIC MINUS DEADZONE
DPS 4.713 REV AK 2012 CLASS A 100% SONIC MINUS DEADZONE
GAMPS 9101 REV B 2006 CLASS A 100% SONIC MINUS DEADZONE
PS 21211P 2010 CLASS A 100% SONIC MINUS DEADZONE

Load Details

Package	Net Lbs	Kg	Lot	Piece	Serial	Parent Lot
1001698698	1,420.000	644.101	9410428	01		
1001698698	1,420.000	644.101	9410428	02		
1001698698	1,420.000	644.101	9410428	03		

Lot: 9410428 (See test results below)

Tensile - Room Temperature (US)

Direction	Tests	Ultimate (KSI)		Yield (KSI)		Elongation (%)		Report
		Min	Max	Min	Max	Min	Max	
LT	02	80.7	81.1	70.7	72.1	13.0	13.0	



Constellium

Naacap
Materials Testing Laboratory

Constellium Rolled Products
Ravenswood, LLC

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T
O


A M CASTLE & COMPANY
4175 ROYAL DRIVE
KENNESAW GA
30144
US

S
O
L
D

T
O

A M CASTLE
1420 KENSINGTON ROAD, SUITE 220
OAK BROOK IL
60523
US

A M CASTLE 110620768 4075 INCLUSION Serial:20180203-0110620768 Pg 2of2

CUSTOMER PURCHASE ORDER NO. & ITEM 447822				Constellium ORDER NO. 227660		CERTIFICATION "Constellium Rolled Products, hereby certifies that metal shipped under this order has been inspected and found in conformance with the requirements of the applicable specifications as indicated herein. Any warranty is limited to that shown on Constellium Rolled Products' standard General Terms and Conditions of Sales. Test reports are on file, subject to examination." Constellium Rolled Products Ravenswood, LLC 859 Century Road P.O. BOX 68 RAVENSWOOD, WV 26164 USA  Dave Dunbarger - Laboratory Manager	
ALLOY 7075	CLAD	TEMPER T651	GAUGE 2.00000 in 50.80 mm	WIDTH 48.50000 in 1,232 mm	LENGTH 144.50000 in 3,670 mm		
ITEM ORDERED SPEC PLATE, SAWED MILL FINISH							
CUSTOMER SPECIFICATION AMS QQ-A-250/12A							
PART NUMBER 750616			B/L NUMBER 94221		DATE SHIPPED 02/04/2018		
WT. SHIPPED 4260.000 LB		NO. OF PIECES 000003		GOV'T. CONTRACT NO.			

Tensile - Room Temperature (SI)

		Ultimate (N/MM2)		Yield (N/MM2)		Elongation (%)		Report
Direction	Tests	Min	Max	Min	Max	Min	Max	
LT	02	556	559	487	497	13.0	13.0	

Chemistry (Actual)

	SI	FE	CU	MN	MG	CR	ZN	TI	ZR
Core	0.07	0.14	1.48	0.03	2.56	0.21	5.46	0.03	0.00

OTHERS-EACH: .05 MAX. OTHERS TOTAL: .15 MAX. AL REMAINDER

All material contained in this lot was cast and manufactured in the USA

QUALITY TEXTS:
AMC CA-15403A R 7



THIS TEST REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL, WITHOUT THE WRITTEN APPROVAL OF THE LABORATORY OR AUTHORIZED QUALITY DELEGATE. THE RECORDING OF FALSE, FICTITIOUS, OR FRAUDULENT STATEMENTS OR ENTRIES ON THE CERTIFICATE MAY BE PUNISHED AS A FELONY UNDER FEDERAL LAW.

CHEMISTRY BY OES: ARKSPARK
 CHEMISTRIES REPORTED IN PERCENTAGE BY WEIGHT
 WHEN FRACTURE TOUGHNESS TEST REQUIRED, TESTED PER ASTM E399
 WHEN TENSILE TEST REQUIRED, TESTED PER ASTM E8; B557
 DUNS Number: 090570149; CAGE Code: 1YW19

Mercury is not a normal contaminant in aluminum alloys and neither mercury nor any of its compounds were utilized in the manufacture of our product.

"END OF CERTIFICATION"

SPECIFICATION CONTROL DRAWING

△B PURCHASE MATERIAL: 7075-T6/T62/T651 ALUMINUM SHEET OR PLATE
SPECIFICATION: QQ-A-250/12 OR AMS-QQ-A-250/12
OR AMS 4045
OR ASTM B209

OR

△B PURCHASE MATERIAL: 7075-T6/T62/T651 ALCLAD ALUMINUM SHEET OR PLATE
SPECIFICATION: QQ-A-250/13 OR AMS-QQ-A-250/13
OR AMS 4048 / 4049
OR ASTM B209

△B PART NUMBER: M7075T6S | TTT | X | W | WWW |
| THK | | WIDTH |

WHERE "TTT" = THICKNESS (IN INCHES)
AND "W.WWW" = WIDTH (IN INCHES, OPTIONAL, FOR SPECIFYING CUT PLATE)
EG. 0.063" THICK SHEET = M7075T6S.063
EG. 3.5" WIDE BY 0.500" THICK PLATE = M7075T6S.500X3.500

△B PREFERRED SIZE: .TTT BY 4FT BY 10FT FOR SHEET

RELEASED
2017 JUN 19
ECN 17-574

APPROVED

B	ADD. REF TO "PLATE": "T651" TEMPER, AMS 4048, OPTIONAL WIDTH DIM (CAR16-149)		CP	17 05 05
A	NEW ISSUE		RF	10.11.08
REV	DESCRIPTION	BY	DATE	
DRAWN		CP		
CHECKED		ML		
MFG. APPR.		LL		
APPROVED		WM		
DE APPR.		D9		
DATE	17.05.05			
DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA				
DRAWING NO. M7075T6S				
REV. B SHEET 1 OF 1				
TITLE 7075-T6 SHEET/PLATE SPEC				
SCALE N15				
COPYRIGHT © 2003 BY DART AEROSPACE LTD. ALL RIGHTS RESERVED. NO PART OF THIS DOCUMENT MAY BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM.				

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M7075T6S2-000x200
 DATE: 18/12/27

PO / BATCH NO.: P0041817/S40523

MATERIAL CERT REC'D: Yes
 QUANTITY RECEIVED: 22.34
 QUANTITY INSPECTED: 22.34
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 2.000"
 THICKNESS RECEIVED: 2.000"
 SHEET SIZE ORDERED: —
 SHEET SIZE RECEIVED: —

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	N	
CORRECT FINISH	Y	N	
CORROSION	Y	N	
CORRECT GRAIN DIRECTION	Y	N	
CORRECT MATERIAL PER M-DRAWING	Y	N	AMS QQ-A-250/12
CORRECT THICKNESS	Y	N	
PHOTO REQUIRED	Y	N	
CORRECT REF # TO LINK CERT	Y	N	LT: 9410428
CORRECT MATERIAL IDENTIFICATION	Y	N	
CORRECT M# ON THE MATERIAL	Y	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	N	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	N	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>AM</u> DATE: <u>18/12/27</u>	SIGNED OFF BY: _____ DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in